

ATGCCCAAGCGCGCAGCTGGGGGCCCTCCGTGGTGTGATCCGTCTGGCCATCCGAGTGGCGCTGGCTGCCATGCCATGCT  
 GCTACGTCCCCAGCAGGTCCACTGCACGTTGGATCCCTGGCTCCGTGCCGCTGGCATGGTAGACAGCTGGAAAGAATCAATTGGGTTAA  
 TACCATACAGGCCCTGTCAAGAACCTCATTGAGACTGACCAAGTGGAGCTACTTATGATTACGGCAATGAGATCCAAAGCATCCCCATGGA  
 GCTTAAAGAGACCTCGACTCTCTCAGGTTCAAGTCAAGTACAAAGCTGAGAGTGTACACAGGAGACAGGCCCTCAGGGTCTCTA  
 TGAGGCTGACATGGACACAAACAGATCGAGTTATCCACCCCTAACGGCTAACGCTCTGAGGACTACTCCATTGGAGAAATCT  
 CCTCCACCGACTGCACCCAGCACCTCTCACGGTACACATTGGATTATTCAAGACTCTCACCATAAGGCACCTACTTAGCAGAGAACATG  
 GTTAAAGACTCTTCTGGCAGCATGCTCGGAACATGCCGCTTGGAGAATCTTACTTGAGGGAAATCCGTGGGATGTGAGATGAGAT  
 GTTTTGGAAATGGGATGCAAATCAGAGGAATTCTGAAGTGTAAAAGGACAAAGCTATGAGGGCTGAGTTGTGCAATGTGCTTCAGTCC  
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 ATTGAGGAGGAGCAGAACAGGAGGATGGTGGCAGGCCAGCTCATCTGGAGAAATTCAACTGCCAGTGGGAGCATCTTGTGAAATATGACCG  
 ACGAGCACGGAACATGGTAACCTGGTCTGTGACATCAAGAACAACTGGATGTGACAGATTACTTGTGAAACAAACGGATCTCCAGATATTG  
 CATAATGCAACAGTGCCTGGACTTGTGAGTGTCAATGACCCGAGAAAATGAAAGCTATGAAATTGATAGCATACTACAGTGAAGTCCC  
 GTGAAGCTACACAGAGGACTATGCTCAGCAAAGACCCAGAGTCAGTACAGGAGGATGCTGATGAGGAAGCTTACTACAGGTG  
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 CAAAGAGATCAGACTGTCTGGAGGGGTCCATGCCAGTTGAGCTGCAACCTGAAAGCTCTGAGGTCATGGTCAATCTCTGGGTTCTCCAGATG  
 GCTCCATCTGAAAGGCCATGGATGACCCAGACAGCAAGTCTCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGGATCTGACTC  
 AGGCTTGTACAGTGCATTGCTCAAGTGGGGATGAAATGGACCGATGGTATATAGGGTACTTGTGAGTCTCCCTCCACTCAGCCAGCCGAGAAA  
 GACACAGTGCACATTGCAAGAACCCAGGGAGTGGTGGCAGTGCCTTGCATGGTCAATGTTAGCAATACCCGAGGCCACCTTAGCTGATTCTCCAA  
 ACAGAAGGATAATTAAATGATTGGCTAACACATCACATGTTACATGTCACCTTCCATCCAAAGGCTCAAGTCAAGTCAAGTGAAGTGG  
 TTACTACAGATGTGTTGCTGCAACAGCAAGGGCAGACATTGGTGGGAAATCACAGTACAGTACAGGAAAGGGTCTGGCTTGCACATCCAAA  
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 GGAGACTCTGCATCCAAAGGACCAAGAGGTGTTCTCCTAAACAAAGGATGTCACCTGGGATCAATGGAGACAAAGAACCCAGGGAGAACAGCT  
 GAAACTCTGGAAAGGACCTGGGAAACAGAGGACCAATGTCAGAGGCTGAGATCTAGACGAGGATAAACTGGGCAACAAAGTGGGATCTGGG  
 CAGATTAACTGGAGGCCCTGGGCTGATATTAGGCAAGTGGCTGGGAAATCTCCCTAAGGGCACAGAAGTACCCCGTTGATTAAACACAA  
 GTCCCTCACCTTGAGCTAGAACAGTACACCCACCTTCTGTTCTCCCTCAGCATCTCTGTGAGACAGTAACAGTGTGAGAATC  
 CTCAGCAGATGACCTTACTTGGTGAAGAAGGACGTTTGGTACCATTTCTCAGCAGCATGGGCTAGAACACAACATGGAGTTATT  
 CTTGTTGACCTGAGAACAGCACCTCTGGAGGAAGTGTGATGACCTTCTGAGAAGACTGAGGAGATAACTTCAACTGAGGAGACCTG  
 AGGGAGACGAGCCCTACACTTATATGAGCCTTATGACCATCTCCACTCTGACACATAGGACATGTTAGACGAGGATGAGGCTCCATTGG  
 GACGGCACAGAGGGTTGGTCTGACAGATGTTGATGTCACAGGAGCCATGGGAGGATGAGGAGATGAGGCTCCATTGGATGCTGCTCTGG  
 GAGTCTGAGGCCATGCAATACTTGACCCAGATTGGAGACTAAGTCACARCCAGATGAGGATAAGATGAAAGAACACCTTGCACACCTTACTC  
 CAACCCCAACATCTGGGTTAATGACCTCAGTACATCACAGTTATTGAGGATTCTACTATAGGGAAAGGCTGCCAGGCAATCACATCTACA  
 AGGACTGACAGAACACRCCACCTTGTGAAAGGACTGTCAGACTCAAGACACCTACTGATTAAAAGGGTATGAAAGAGATGTCAGACTA  
 CAGGGAGGAAATGTCAGAGGGAGGCCACACACTCCAGAAGTCTGGAGGATGAGGAGATAACTTCAACTGAGGAGCTCCAC  
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 CGGCACAGCAACCCCCACCAACATTGGCCCATGAGAGCTTCTCAACTCAGGACTCTCAACCAACTCAGGACTCTGACATTAGTCAGTGG  
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 GAAACCACCCCTGTGAGTCAAGTACATCTGGAAACACTGTCAGTGGTACCTCTCTGAAACTAGGACCAAGAAGTACACCCCTACTGCTGCC  
 TGAAGGAGGAGCAGCATCTCTGCCCCATCACACATTCTCATGTCAGTCTGGGAAACACCCACACTACCCGAGTCCAGAAGAATATCTCA  
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 AACAGTGGCTACCTGGGAAATGTCACACCAAGG  
 ACATACCTCTGGGCTTGGGAGG  
 GCATCTGAGTAAAGTTACTGACCGAGAACAGCAATTCAATGGTACTCTCAACAGTGGTAACTCTGAGGAGGAGGAGGAGGAGGAGGAGG  
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 ATCTGGACTTGGGCTTGGGAGG  
 CACCCAGAGGCTTATCTCTGAGTGGCTACCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
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 AGGAACAGGAAACCCACCTTCTGTTACTTGGACAAAGGTTCCACAGGAGCTTATGACTCCGAATACCCAGGATACACGGTTGAGGTT  
 CAAGAACGCTGACCTGAGG  
 GTCTGCTTCTGGTACCCGTGAGCAACCTCAACTTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
 TGCCCAAGGGAGCCCAAGGCCCCCAATTCTCTGGTACCTGGTACCTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
 CGAAAACCCGAGCCCTTCCATCAAGGAGGCGCTCTCTGAGACAGAGGCGCTATAAGTGGTGGGAGGAGGAGGAGGAGGAGGAGGAGG  
 ATCCGCCCTGAGCTGGCCGACTGCCCGGTTATCCACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG  
 CTGCAAGGCTGAGCTGGCCGAGG  
 CCCAACGGGAGGCTCATCCGCAACCTCGGCCAGGCCAAGGACAGGGGGCGCTATGAGTGGCTGGGCCAACCTGGTAGGCTCCGG  
 GTGAGCTGAGCTGAGCAGGCCAGGCCATCACGGGACCTCCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG

FIG. 1

ACTGCAGGCCCTGGGGGACCCCTGGCGCATTCTCTGGAGGCTGCCGCTTCAAGAGGATGATCGACGCCCTTCAGTTGATAGCAGAACAA  
 GGTGTTGCCAATGGCACCTGGTGTGAAATCAGTGACGCCAAAGATGCCGGAGATTACCTGCGTAGCTCGAAATTAAGGTTGATGACTAC  
 CTGGTGTGCCAAAGTGGATGTTGATGAAACCGGCAAGATTGACACAAAGGAGGAAACGCCAACAAAGTCTTCAGCCGGAGTCTGGTGA  
 ACTGTTGGCCTTCAACATGGGACTCTACTTTAACGAATGGGGATGAGGGAGGAAGGAGACTACACCTGCTTCTCATGCGATGACAGGGTGG  
 ACGCCAACAGGCTATGTCCTTCAACATGGGACTCTACTTTAACGAATGGGGATGAGGGAGGAAGGAGACTACACCTGCTTCTCATG  
 CAGGTGGGAAGGAGGAGATGAGAGTCAGACTGAGGTTGACAGCGCCGCCACCATCCGAACAGACTTACTTGGCGTTCAAGGTTG  
 GAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATGCCCAAGGTGACTTGGTCTCCCAACCACAAAGGTGATCCCCACCTCTGA  
 GAAGATATCAGATATACCAAGGATGGCACTCTCTTATCCGAAGGCCACGGCTCTGACAGGCCAACTACACCTGCTGCTGGTCA  
 GAGGATAGGAAGGAGCCTGGTGGGATCACGTCACGGTCAAGGTTACCCACCCGGGGTGTATGGCTTCCCGAGGGTGTGGTCTGC  
 GGGGAGTGGGAAACTGATTGACTGAAAGCTGAAGGATCCTCCACCCGGGGTGTATGGCTTCCCGAGGGTGTGGTCTGCAGCTCATA  
 CTATGAAACGGATCACTGTCATGCCAACGGTCCCTGGACATCAGGAGTTGAGGAAGGAGACTCGGTCAGCTGGTATGCCACGCAAC  
 GAGGGAGGGAGGCGAGGGTGTGCACTGTCCTGGAGGCCACGGAAACCCATCTCCACGCCATCGCAGGAGAAGATCACGCCA  
 TGGCGGGCACACCATCACGCCCACTGCTCTGGCGGCCACGGGACACCCAGCTGGTGTGGGCTCTCCCAATGCCACCGATCTGCAGGAGTGG  
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 GTGAGACCTGAAGCTCCCCTGACCCCTCCGGGCTGGCAGGGACGTTCTCTGGACGCTCCCAATGGCATGCTGGAGGGCCCCAAC  
 CCTGGGAGGGCTTCTGGACATGGCACCCCTCAGGTTCTGGTGTGGGCTACCTATGTCAGGAGTGGGCTACCTATGTCAGGAGTGGGAG  
 TACGGGCTCTGGTCAACAGCATCCGGTGTGGGCTATGGGATCCCAAGCTGACATCACGGTCTCTCCGGTGGGCTACCCGCTGGGCGC  
 ACACCGTGAACACTGACATGGCTATGGGATCCCAAGCTGACATCACGGTCTCTCCGGTGGGAGTTACCGGATAAGTCGCACTG  
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 AACATTCTCGGAGTCACTTCAAGGTTCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGGATCTGGG  
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 TACAATTGGGAAAGGAGCAATGAGCACAGGAGGGCTCAGGCTGGGAGACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 ATTCAAGGGTCTGTCTGACTGCAATTCTTCTTGTCAATGGCAACTGCACTGCTTCTGACATGGCTTACGGTGTGAGGTT  
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 ACTGATGATAGACATTGTT  
 ATATATTTTATTCAGAGTACATACAGCTTACATTTTATGTTGAAAGGAAACATTCTCTGGAAACTCATT  
 TATATATTTTCTTCAATCAGGAGTGAAGGAGAAATACTTCTGTTTAAATTTTAAACCTCTCCAAACTCTTCAATT  
 TGATGACACTGCAACACTGTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 ACCCTCCAGGGAGGGCTGCATATTAGATTCTGTATGCAAAGTTTGTGAAAGCTGTCAGAGGAGGAGGAGGAGGAGGAGGAG  
 AACTGCACTACAATTACAGAATTGAACTAGATCTGGGCTTCCCGAARAACTCTCTGCACTGATCTGGCTTCCATCTGTCAAGGT  
 GCTGCTTCTCCCGAGCAGTCACTGAGTTGCCCCATGAATAATACAGACCTGTTTCTCATGACTGTTACTGTT  
 CTGACATTGATAATAATAATTCCTCCAAAAAAA

FIG. 1 - CONTINUED

MPKRAHWGALSVVLLWGHPRVALACPACPHCACVYPSEVHCTFRSLASVPAGIARHVERINLGFNSIQALSETSFAGLTKLELLMIHGNEIPSI  
 ALRDLSSLOVKFSYNKLRVITGOTLQLSINLMLRHLIDHNLKIEFIHPQAFNGLTSRLLLHLEGNLLHLHPSTFSTFTFLDYFRLSTIRHLYLA  
 ENNVRTLPASMLRNMPMLLNLQGPNWTCDCEMRWFLEWDAKSRGILKCKDKAYEGGQLCAMCFSKKLYKHEIHLKLDMLTCLKPSIESPLRQNRSRS  
 IEEEQEQQEDGGSQLEKFLQPLQWSISLNMTDEHGNMVLVCDIKKPMDVYKIHNLQDTPDIDINATVALDFECPTRENEYELWRLIAYSEVP  
 VKLHREMLSKDPRVSYQYRQDADEEALYYTGVRAQIILAEPWVQPSIDQLNRRQSTAKVLLSYYTQYSQTISTKDTQARGRSRWVMEPSGAV  
 ORDQTVLEGGPCQLSCNVKASESPSIVNLPDGSILKAPMDPDSKFSILSSGWLRIKSMEPSDSGLYQCIQAVRDEMDRMVYRVLVQSPSTOPA  
 EKDTVTIGKNGESVTLPCNALAIPEAHLISWLPNRRNLIINDLANTSRYMLPNGLSIPKQVDSGSDYQYRCVAVNQQGADHFTVGITVTKGGLPSKR  
 GRRPGAKALSRVREDIVEDEGGSGMDDETSRLLHPKDQEVEFLKTKDADINGDKAKKGRKLKLWKHSEKEPTNVAEGRRVFESSRRINMANK  
 QINPERWADILAKVRGKMLPKGTEVPLIKTTSPPLSLEVTPPFPAVSPPSASPVQTVTSAAEESADVPLGEEEHVLTGTTISSASMGLEHNHNGVI  
 LVEPEVTSTPLEEVVDDLSKTEETITSTEGDLKGTAAPTLISEPSPSTLHTLDTVYEKPTHEETATEGWSAADVGSSEPTSSEYEPLDAVSLA  
 ESEPMQYFDDPDLTKSQQDDEDKMKEDTFAHLPPTIWVNDSTSSQLFEDSTIGEPPVPGQGSHLQGLTDNHLVKSLLSTQDTLLIKGMKEMQSTL  
 QGGNMLEGDQHRSSESQEGKSITLPDSTLGIIMSSMSPVKKPAETVTGTLDDKDTTNTVTPQKVAPSSSTMSTHSRPRNQRRKPNFRH  
 RHKQTPTTFAPSETSTOAPDRIKISQVSESSLPAWVNTVTPKOLEMEKNAEPTSKGTPRKHGKRPNKRHTPSTVSSRASGSKPSKPS  
 ENKHRNIVTPSSETILLFRTVSLKTEGPYDSLDYMTTRKIYSSYPQVETLPFTYKPTSDGKEIKDDVATNVDKHKSDLV  
 TGESITNAIPTSRSL  
 VSTMGEFKEESSPVGPGPTWNPSPRTAQPGRQTDIPVTTSGENLTDPPLKELEDVDFTESEFLSSLTVSTPFHQEEAGSSTTLSSIKVEVASSQA  
 ETTTLDQDHLETTVAILSETRPQHNTPTAARMKEPASSPSTIILMSLGTTTTPKPALPSPRIQASRDSKENVFLYVGNPETEATPVNNEGTQHM  
 SGPNELSTPSSDRDAFNLTKELEKQVFGSRSLPQFDSQRDQHSLQHSLRVPKAIPILPTATVRLPEMSTQPSASRYFVTSQSFRHNTKPEIT  
 TYPGALPENKQFTTPTLSSTTIPLPLHMSKPSIPSKFTDRTDQFNGYSKVFGNNNIPEARNPVGKPPSPRIPHYSNGLPFTTNKTLSPFQLGV  
 RRPQIPTSPAPVMRERKVIPGSYNRIHSHSTFHLDGFPAPPLLHTPQTTGSPSTNLQNPIMVSSSTQSSISFITSSVQSSGFSHQSSKFFAGGPPA  
 SKFWMSLGEKPKQILKSPQTVSVAETDFTVPCATEAKPCKPFTVTKVSTGALMTPNTRIQRFEVLPNGTTLVIRKQVQDRGQYNTASNLHGLDRM  
 VLLSVTVOQQPQIASHYQDVTYVLDTIAMECLAKTPAQPQISWI  
 FDRPRVWLGDTQIRPSQFLHGNLIVFPNGTLYIRNLAPKDSGRYECVAANLVGSSAR  
 VQLNVORAANARITGSPRTDVYGGTLKLDSCASGDPWPRIWLRLPSKRMIDALFSFDSRIKVFANGTLVVRSVTDKADGDLV  
 VVVKVVDVMKPAKIEHKEENDHVKVYGGDLKVDCAVATLGPNEISWSPDGSLSVNSFMSQSDSGRKTQYVFNNGTLYFNEVGMREEG  
 DYTCFAEN  
 QVGKDEMVRVVKVTTAPATIRNKTYLAVQVFPYGDVTVACEAKGEPMPKTVLSPNTPKVIPTSSSEKYQIYQDGTLIQAQRSDSGNYTCL  
 EDKTVWVNVNQPPKINGPNPITTREIAAGGSRKLDCKAEIPTRVLWAPFEGVVL  
 PEGVVL  
 EGGEARLIVOLPTVLEPMKPIFHDPDSEKITA  
 MAGHTISLNCSA  
 GAGTPTPSLWVLPNGTDLQSGOOLQRFYHKADGRHISGLSSV  
 DAGAYRCVAR  
 NAAGHTERLVSLSVGLKPEAKQYHNLSI  
 INGETLKLPC  
 TPPGAGQGRFSWLPNGMHLEG  
 PQTLGRV  
 SLL  
 DNGT  
 LTV  
 REASV  
 FDRGTY  
 VCRMETE  
 YGSPVTSIPVIVIAYPPRITSEPTPVYI  
 YTRPGNTVKLNCMAMGIPKADITWELPKSHL  
 KAGVQARLYGNRF  
 LHPQGS  
 LTIQHAT  
 QDAGF  
 YKCM  
 NI  
 LGSDSKTT  
 YHVF

FIG. 2

Levels of Adlican mRNA in human cartilage by RT-PCR

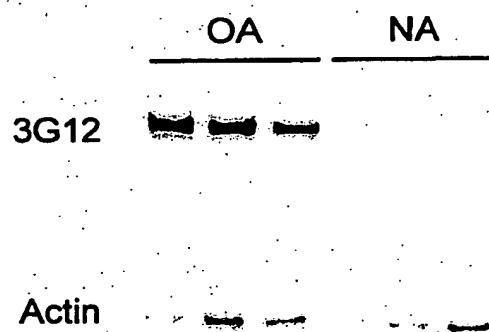


FIG.3

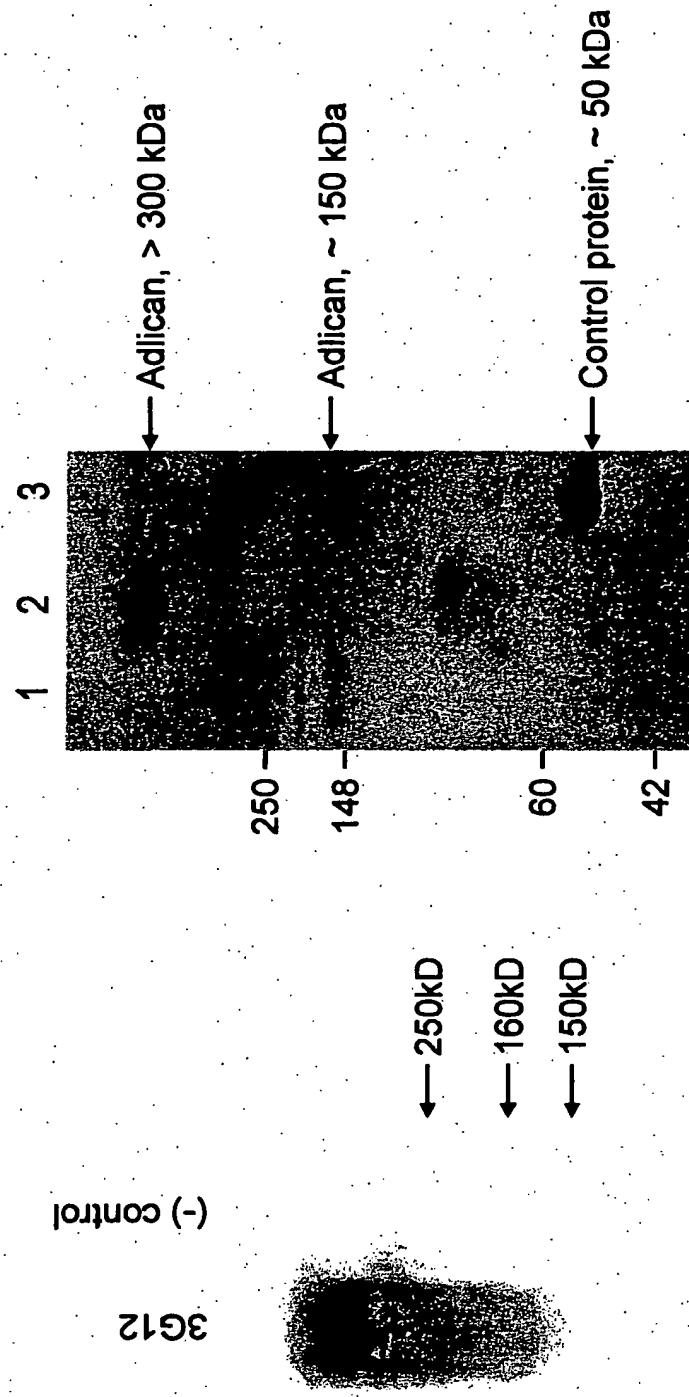


FIG.4

FIG.5

DIAGNOSIS	Western blot positive/total			
	trauma	gout	OA, mild/mod.	RA, moderate
trauma	1/2			
gout		0/3		
OA, mild/mod.			2/4	
OA, severe				4/4 ←
RA, moderate				2/6
RA, severe				1/2

FIG. 6

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